

ABSTRACT

A motion control system comprises control logic and a programming interface. The programming interface is configured to permit a user to specify a plurality of non-tangential path segments, and the control logic is configured to generate a  
5 plurality of additional connecting path segments substantially extending between and connecting the non-tangential path segments. The motion control system is configured to generate control signals to control operation of a plurality of motors to drive movement of a controlled element along a path defined by the non-tangential path segments and the additional connecting path segments.